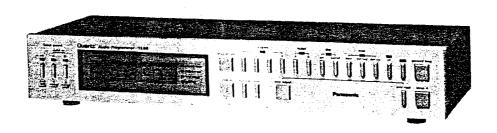


Vanual

Audio Programmer

TE 96



Specifications

Power source:

220V AC

120/220/240V AC (PX only)

50~60Hz

Rated current:

Outlet A & B 5A each

Power consumption:

6W for operation of programmer

Power capacity:

1,100W (220V, 240V AC)

600W (120V AC)

Timer type:

1 week type (For each day, maximum of 8 operations, 4 cycles of ON/OFF) Clock accuracy:

Quartz crystal controlled;

within ±15 seconds per month

Timer accuracy

Within +0.02 seconds against

preset program

Power failure

compensation time:

About 20 minutes

Dimensions:

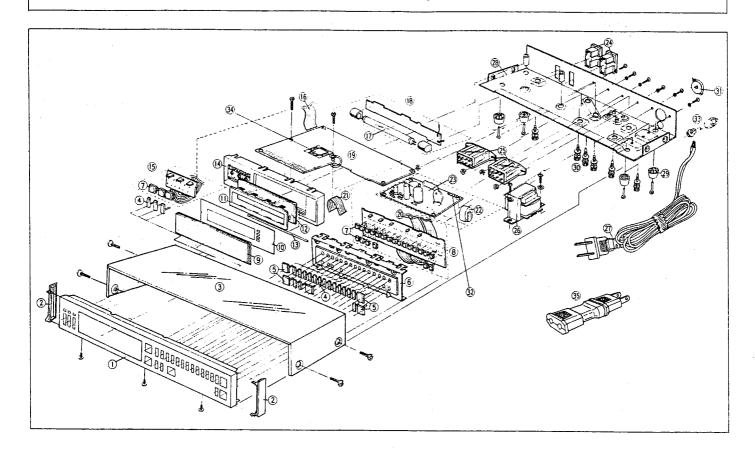
74 x 430 x 151 mm

Weight:

2,500 g

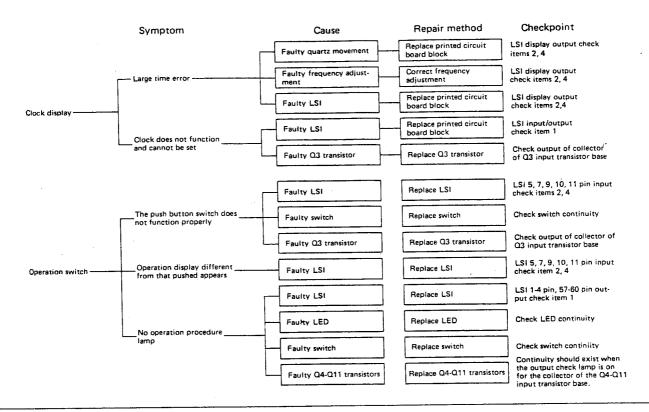


EXPLODED VIEW



REPLACEMENT PARTS LIST

Ref. No.	Part No.	Part Name & Description	Per set	Remarks	Ref. No.	Part No.	Part Name & Description	Per set	Remarks
1	TE96003067I	Front panel (silver)	1		20	TE96013457	Block jambber A	2	
	TE960020671	" (black)	1		21	TE96033457	" C	1	
	TE96003067II	" (silver) for PX	1		22	TE95002717	Line filter	1	TE95
2	TE96003167	Side panel for silver	2		00	T5050004071	Printed circuit board B with		
	TE96002167	" for black	2		23 TE960221071		fuse	1	
3	TE96003087	Upper case	1		24	TE96002507	Receptacle A (A2)	2	
4	TE96013627	Key A (silver)	19		24	TE96002507C	" C (C2, w/earth)	2	1
	TE96012627	" (black)	19		25	TE96005337I	HP Relay	2	
5	TE96023627	Key B (silver)	5		26	TE96002237I	Power transformer	1	
	TE96022627	" (black)	5		27	TE96002057	Cord A (A2)	1	
6	TE96003687	Key plate	1			TE96002057C	Cord C (C2, w/earth)	1	
7	TE96002097	Switch	24		28	TE96003097A	Lower case A for PX	1	
8	TE96032107	Printed circuit board C	1		20	TE96003097C	" C (w/C2 hole)	1	
9	TE96003107	Front cover	1		29	TE96007517	Foot	4	
10	TE96003377I	Display frame (gray)	1		30	TE96003997	PCB support	6	
	TE96002377I	" (black)	1		31	TE90302017A	Voltage conversion switch	1	TE95,97,
11	TE96000217	Display holder	1		31	1 L90302017 A	(PX only)		903
12	TE96002367	LCD	1		32	TE96005267A	Fuse (160mA)	1	
13	TE96002657	Conductive rubber		1		TE96000357I	Bushing	1	EA-5
14	TE96003727	Fixed frame	1		33	TE96000357II	" for PX	1	EA-6
15	TE96042107	Printed circuit board D	1			TE96002101	Circuit block (=(8)+ (15)+ (18)		
16	TE96023457	Block jambber B					+ (19) + (23)	1	
17	TE96002317	Cold minus polarity discharge			34	TE96002377	Micro computer	1	
	, 255502517	tube	_ 1		35	TE96002217A	Adapter sets (PX only)	1	
18	TE96052107	Printed circuit board E			36	TE96008107I Operating instruction book		1	
19	TE96012107	" A	1		37	TE960080071	Individual box	1	



INSPECTION METHOD

_	Check item		Oscilloscope		Normal voltage and wave shape	Diagnosis and location of problem	
Symptom			Probe Ground lead		Normal Voltage and Wave shape		
		VDD	Ъ	a	DC 3.0V ±0.4V	No VDD voltage •Faulty transformer •Faulty ZD1 Zener diode	
Lights do not go on at all	1	Check common wave shape of display tube	d	a	DC 1.5V ±0.4V	No common wave shape • Faulty LSI	
Lights in a segment do not go on. Lighted segment is faint. Lighted segment flickers All segments are lighted.	2	Check the LSI output wave shape	©	a	DC3.0V ±0.4V	No LSI output when lights on Faulty LSI LSI output exists when lights are on. Faulty display tube	
Discharge tube does not light up.	3	Check transformer output	e	a	AC 380V ±40V	No transformer output *Disconnected transformer wiring Transformer output exists • Faulty discharge tube	
• Large time error • Clock does not function and cannot be set.	4	Check display output wave shape	©	a	64Hz	No display output Faulty LSI Display output exists Faulty frequency adjustment Q3 transistor collector voltage is not	
		Check Q3 transistor collector wave shape	Ð	a	0 V	at OV Faulty transistor	
Relay does not function at set time Relay functions even when not set	5	Check LSI output	(g)	(a)	Relay when OFF	When the wave shape shown does not appear • Faulty LSI • Faulty Q1, Q2 transistors	

TROUBLESHOOTING GUIDE

